

Title (en)

Pneumatic tire tread with sipes and mold blade

Title (de)

Luftreifenlauffläche mit Feineinschnitten und Formklinge

Title (fr)

Bande de roulement pneumatique avec des fentes et une lamelle

Publication

EP 2853417 A3 20150812 (EN)

Application

EP 14181214 A 20140818

Priority

US 201313971333 A 20130820

Abstract (en)

[origin: US2015053320A1] The invention provides a tire tread, the tread having at least one circumferentially extending or laterally extending main groove, the maximum radial depth of the at least one main groove defining a non-skid tread depth, the at least one main groove partially forming at least one tread element, the at least one tread element having a sipe therein, wherein the sipe has a first portion having a first and second opposed side, and a third side joining said first and second side, and said sipe further including a continuous tubular pathway bordering said first, second and third side. The invention further includes a blade for molding a tire, the blade comprising a first portion having a first and second opposed side, and a third side joining said first and second side, and said blade further including a continuous tubular pathway extending along the third side and partially extending along at least one of the first and second side.

IPC 8 full level

B60C 11/12 (2006.01); **B29C 33/42** (2006.01)

CPC (source: EP US)

B29C 33/42 (2013.01 - US); **B60C 11/1218** (2013.01 - EP US); **B60C 11/1281** (2013.01 - EP US); **B60C 2011/1213** (2013.01 - EP US)

Citation (search report)

- [X] JP H02303908 A 19901217 - TOYO TIRE & RUBBER CO
- [X] JP H02241806 A 19900926 - BRIDGESTONE CORP
- [X] JP H0195913 A 19890414 - YOKOHAMA RUBBER CO LTD
- [X] JP 2000043510 A 20000215 - BRIDGESTONE CORP
- [XA] JP H0825361 A 19960130 - BRIDGESTONE CORP
- [X] WO 2012152593 A1 20121115 - MICHELIN & CIE [FR], et al
- [A] US 6264453 B1 20010724 - JACOBS BERNARD BYRON [US], et al
- [X] US 2013164401 A1 20130627 - DUSSEAUX JEAN-RAYMOND [FR]

Cited by

EP3450214A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 2015053320 A1 20150226; **US 9463672 B2 20161011**; BR 102014019854 A2 20150922; BR 102014019854 B1 20201201; CN 104417276 A 20150318; CN 104417276 B 20170531; EP 2853417 A2 20150401; EP 2853417 A3 20150812; EP 2853417 B1 20170412

DOCDB simple family (application)

US 201313971333 A 20130820; BR 102014019854 A 20140811; CN 201410410949 A 20140820; EP 14181214 A 20140818